

BUMN
Hadir untuk negeri



PINDAD MENJAWAB TANTANGAN INDUSTRI 4.0

Senior Leader Forum
Jakarta, 23rd October 2018



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PT Pindad - Persero



PT Pindad (Persero) Official

JEJAK PANJANG SEBUAH KORPORASI



18th Century

1808

Industry 1.0
Mechanical production equipment powered by steam

Artillerie Constructie Winkel (ACW) didirikan di Surabaya



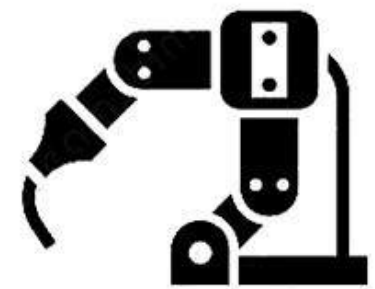
19th Century

1950

Industry 2.0



Pabrik Senjata & Mesiun (PSM) → PT. PINDAD (PERSERO)



20th Century

2004

Industry 3.0



Digital Transformation of PINDAD (CNC Machine)



Today

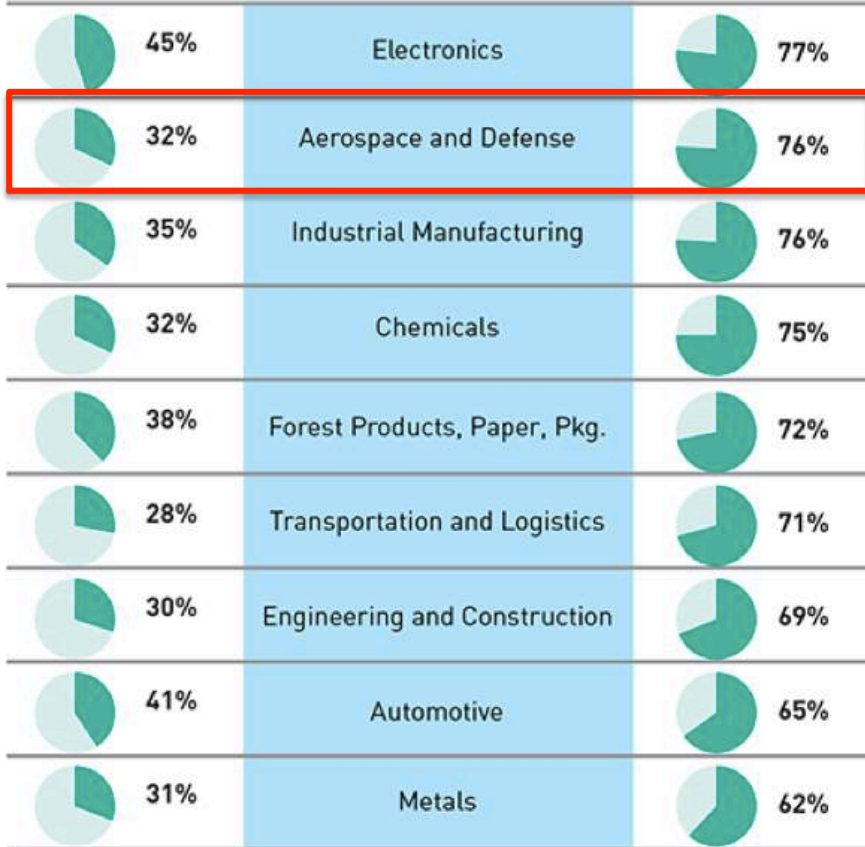
Industry 4.0
Intelligent production incorporated with IoT, cloud technology & big data

Source : "Internet of Things (IoT) dalam Revolusi Industri 4.0", Muhammad Fathi Rauf

Ready or Not, I4.0 is here

NOW

IN FIVE YEARS



Survey PWC (2016) :

Respondents were asked:

- How would you classify the current level of digitization and integration [in operations, supply chain, and related activities] in your company ?
- What level are you expecting in the next five years ?

2000+

Respondents in 26 countries

PINDAD needs to adapt and optimise for Industry 4.0

HOW ?



Source : "Industry 4.0 building the Digital Enterprise", PWC, 2016



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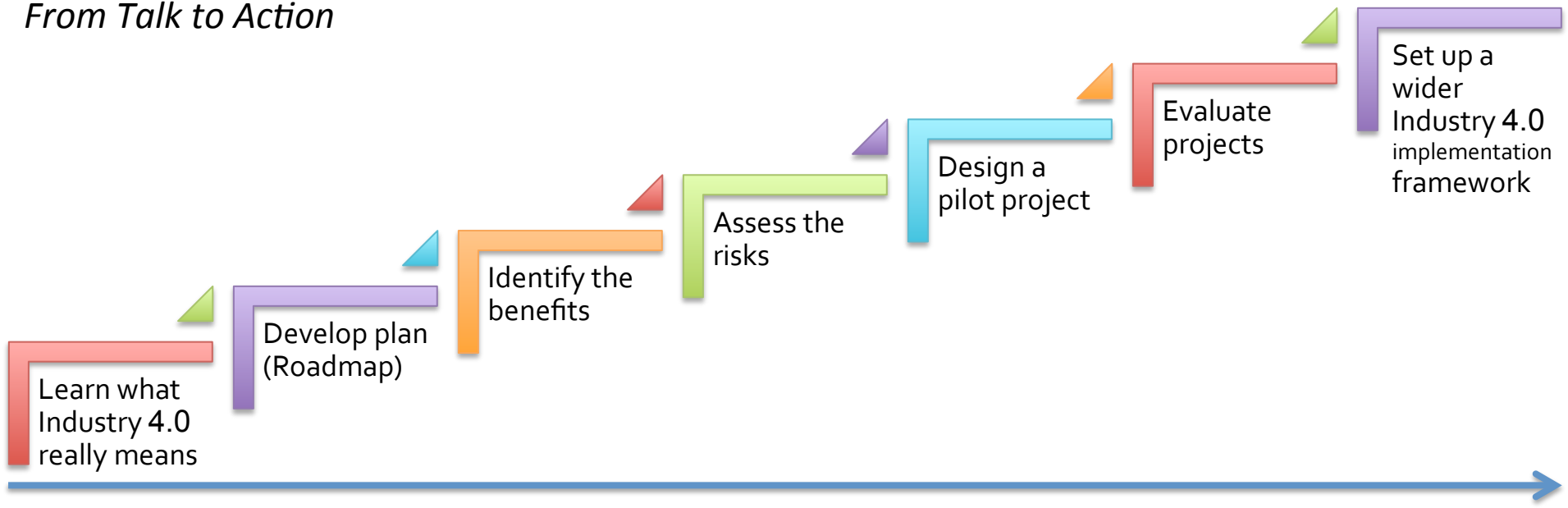


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From Talk to Action

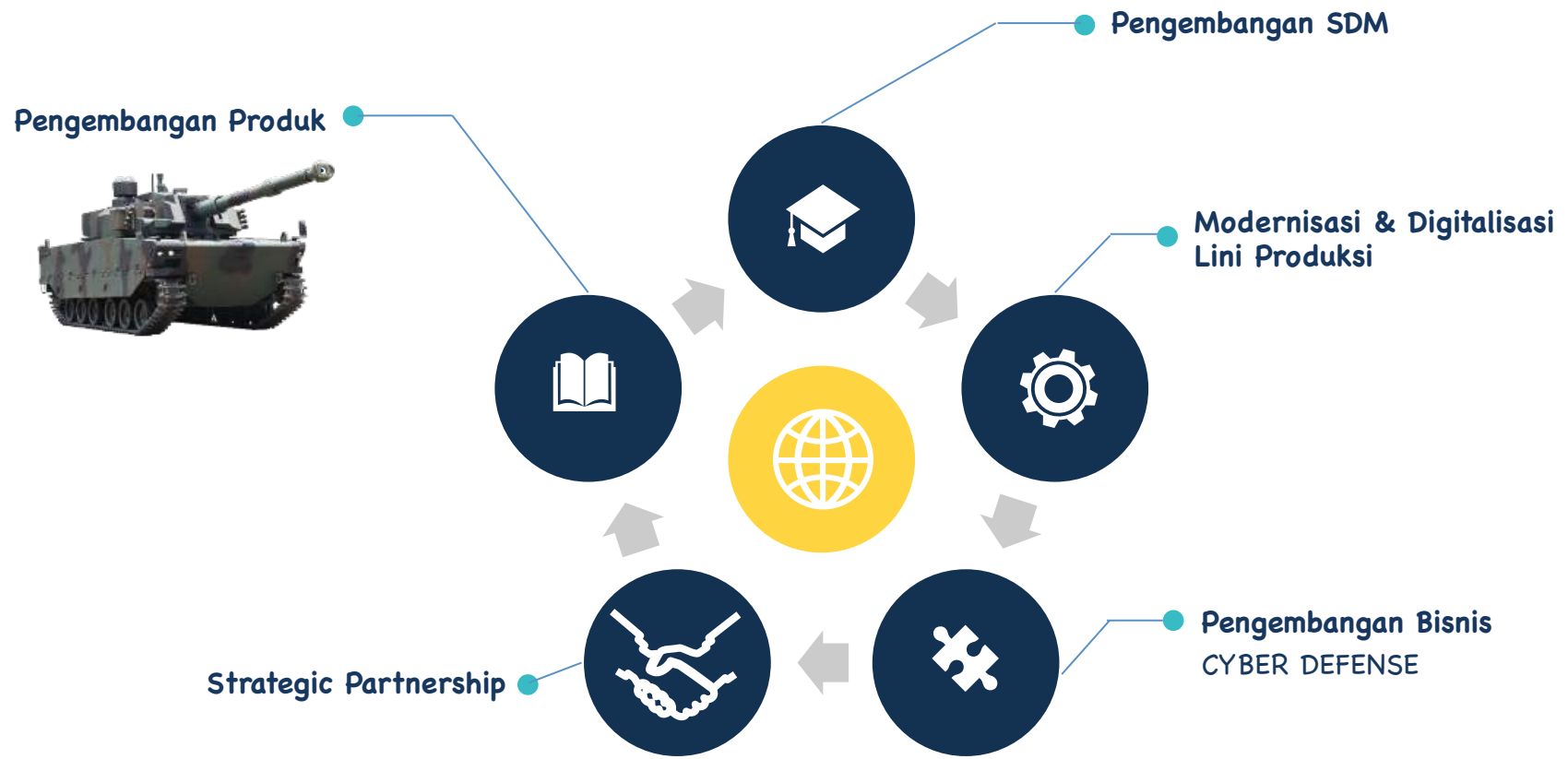


What is I4.0 ?

- 1) Digitisation and Integration of Vertical and Horizontal Value Chains
- 2) Digitisation of Product and Service offerings
- 3) Digital Business Models and Customer Access

Source : "Industry 4.0 : What does it mean to Australian Defence Industry?", KPMG,

INDUSTRI 4.0	PINDAD'S STRATEGY
Digitisation and Integration of Vertical and Horizontal Value Chains	<p>Vertical Value Chain :</p> <ul style="list-style-type: none"> • ERP-System (SD-MM-PP-QM-PM-PS-FI-CO) <p>Horizontal Value Chain :</p> <ul style="list-style-type: none"> • e-Procurement
Digitisation of Product and Service offerings	<p>CYBER DEFENSE :</p> <ul style="list-style-type: none"> ▪ TI IDS-360 ▪ Security Operation Center (SOC) ▪ Handset Communication Highly Secure (IP PTT)
Digital Business Models and Customer Access	To be determined in PINDAD Strategic Plan





Internet of Things (IoT)

Kerentanan IP Base Connectivity memungkinkan intrusi melalui jaringan internet



Artificial Intelligence (AI)

Pihak lawan atau penyerang tidak lagi mengenal batas wilayah teritorial dan yuridiksi.

Pemanfaatan AI bisa menggantikan HUMINT untuk melakukan *crawling* secara robotic



Big Data

Kerentanan Big Data menjadikan batas wilayah privasi tidak lagi tertutup.
Muncul Risiko Pencurian Data Pribadi.



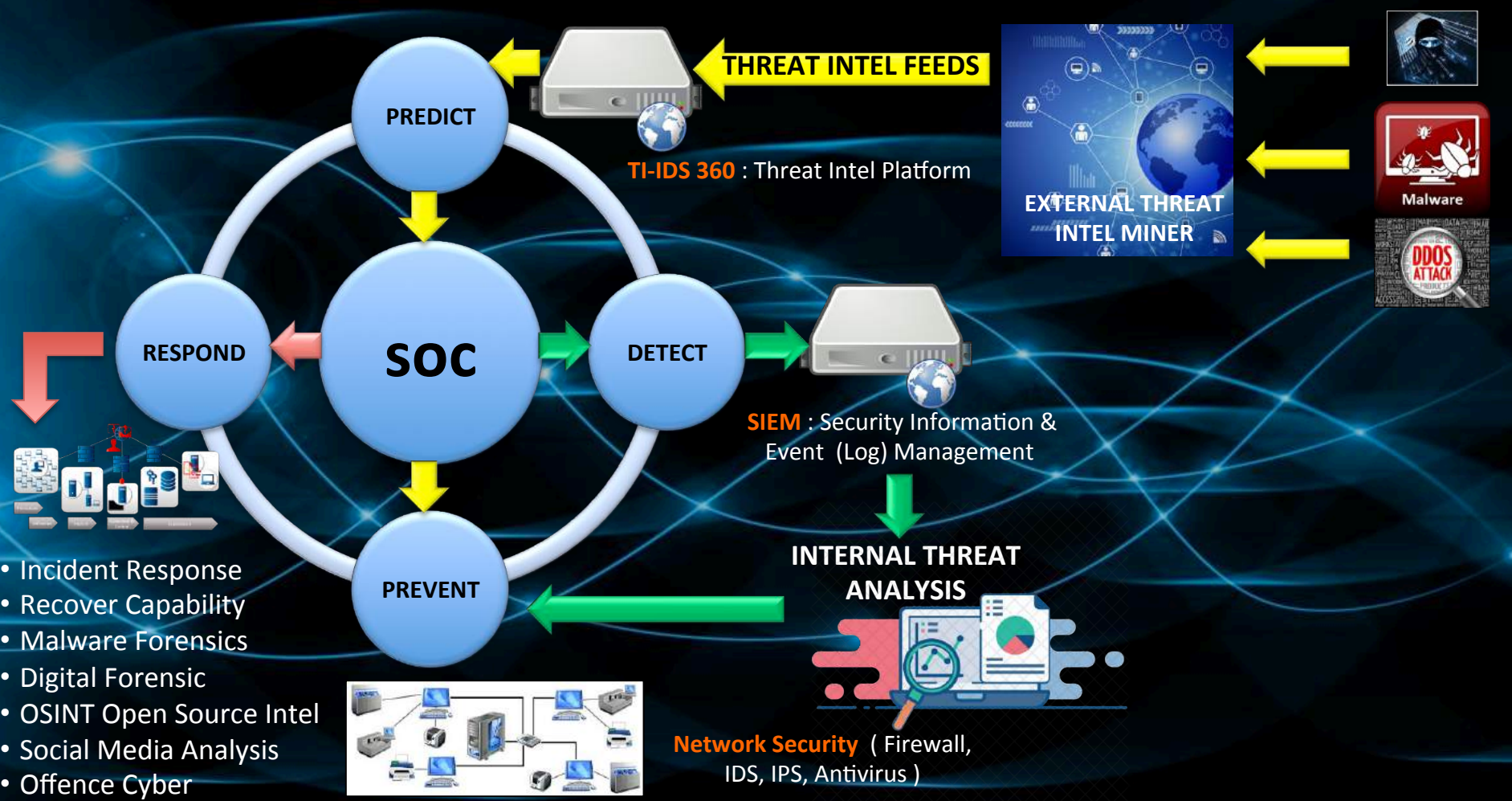
**CYBER
DEFENSE**

THREAT INTELLIGENCE PLATFORM – INTERFACE & DASHBOARD 360 (TI-IDS360)



Function

Threat Intelligence Platform has three main functions: It should have capability to **AGGREGATE** data, have the ability to **SHOW** information feed based on data source, and **ANALYZE** the intelligence gathered. Threat Intelligence Platform capability to integrate with network protection products, provide automated processes, and support workflow and roles, also become of the crucial part in each organization.



Security Operation Command Center for National Resilience and Cyber Security



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